

Alexey Prudnikov

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Personal Information

Date of Birth 16.02.1984 (age 29)
Location Moscow, Russia

Education

2007–2010 **Postgraduate**, *National Research Nuclear University «MEPhI»*.
«**Applied Mathematics and Computer Science**»
2001–2007 **Graduate**, *Moscow Engineering Physics Institute (MEPhI)*.
Degree in «Applied Mathematics and Computer Science»

Work Experience

09.2008–
present **Software Developer**, «*Open Information Technologies*», LLC, Moscow, Russia.
Information technologies: software developing and integration
Responsibilities:

- Design and development information system «*Social Insurance*», which is used by Fund of Social Insurance (FSI) — big government structure of Russian Federation, as system architect and co-project manager.
- Design, development and highload optimization FSI internet portal as system architect of full-text search and lead OLAP-developer.
- Design, development and highload optimization FSI web-service for submission financial statements with digital signatures as system architect.
- Design and development framework, which is used for interaction between SAP ERP and converter of financial reports from Russian national standards to IFRS and GAAP, as lead developer.
- Design and development electronic payment processing system as system architect.

09.2007–
07.2013 **Research/Teaching Associate**, *National Research Nuclear University «MEPhI»*,
«*Information Systems and Technology*» department, Moscow, Russia.
Science and education
Responsibilities:

- Teaching experience:
 - «Algorithms and Data Structures» (lections and labs);
 - «Programming Languages and Compilers» (lections and labs);
 - «Optimization Methods» (lections and labs);
 - «Numerical Computing» (labs);
 - «Game Theory and Operation Research» (lections).
- Supervising course work and assignments of undergraduate students.
- Participation in department's research work.
- Create and deliver tutorial and lab session material for undergraduate students.

10.2005–
09.2008 **Software Developer**, «*New information systems and technologies*», JSC, Moscow, Russia.
Information technologies: software developing and integration
Responsibilities:

- Design and development information system «*Social Insurance*», which is used by Fund of Social Insurance (FSI) — big government structure of Russian Federation, as lead developer.
- Design and development FSI internet portal as lead OLAP-developer and software architect of application for delivery financial statements from insurants to FSI.

Computer Skills

OS Linux (RedHat-based), Windows, FreeBSD
Languages C, Java, Delphi, PHP, SQL

DBMS	Oracle, MySQL, PostgreSQL, HyTech, DB2
Version Control	Git, Subversion
Project Management	Redmine, MediaWiki
Numerical Computing	Octave, Scilab
Document Preparation	LaTeX

Personal Skills

- Full cycle software development experience — business analysis, design, development, deploy and user training.
- Design software with systematic approach.
- Use free software to minimize total cost of development.
- Thoroughness and responsibility with documents, records and acts.
- Business relations and negotiations with customers (including government and military).
- Preparation of reports, speeches and presentations to an audience, participation in conferences and seminars as a speaker.
- Excellent oral and written Russian language.
- Continuous professional development, quick learning.
- Orderliness, punctuality.

Trainings and Certifications

- 2013 **Training**, «*Functional Programming Principles in Scala*», École Polytechnique Fédérale de Lausanne, [MOOC](#).
- 2013 **Training**, «*Discrete Optimization*», University of Melbourne, [MOOC](#).
- 2013 **Training**, RH254 «*Red Hat System Administration III*», Red Hat Certified Training Partner «Inventa».
- 2013 **Training**, «*Hardware/Software Interface*», University of Washington, [MOOC](#).
- 2013 **Training**, «*Pattern-Oriented Software Architectures for Concurrent and Networked Software*», Vanderbilt University, [MOOC](#).
- 2013 **Training**, «*Linear and Discrete Optimization*», École Polytechnique Fédérale de Lausanne, [MOOC](#).
- 2013 **Certification**, [Red Hat EX200](#), «*Red Hat Certified System Administrator*».
- 2013 **Training**, RH134 «*Red Hat System Administration II*», Red Hat Certified Training Partner «Inventa».
- 2013 **Training**, RH124 «*Red Hat System Administration I*», Red Hat Certified Training Partner «Inventa».
- 2013 **Training**, «*Game Theory*», Stanford University & University of British Columbia, [MOOC](#).
- 2013 **Training**, «*Algorithms: Design and Analysis, Part II*», Stanford University, [MOOC](#).
- 2012 **Certification**, [IBM 000-730](#), «*IBM Certified Database Associate — DB2 9 Fundamentals*».
- 2012 **Certification**, [IBM 000-302](#), «*IBM Certified Academic Associate - DB2 9 Database and Application Fundamentals*».
- 2012 **Training**, «*Quantum Mechanics and Quantum Computation*», University of California, Berkeley, [MOOC](#).
- 2012 **Training**, «*Machine Learning*», Stanford University, [MOOC](#).
- 2012 **Training**, «*Automata*», Stanford University, [MOOC](#).
- 2012 **Training**, «*Algorithms: Design and Analysis, Part I*», Stanford University, [MOOC](#).
- 2010 **Training**, «*Open Information Systems Security*», NRNU MEPhI.

Languages

Russian	Native speaker
English	Reading technical and mathematical papers and books — free, speaking and writing — Intermediate

Publications and Presentations

A. Prudnikov. Approaches to the protection of payment card fraud on the internet. In *Science session NRNU MEPhI-2013. Abstracts in three volumes*, volume 2, page 221, M., 2013. NRNU MEPhI.

Yu. Grankin, D. Kovalev, and A. Prudnikov. Framework «sunflower» for rapid java ee-applications development. In *Science session NRNU MEPhI-2012. Abstracts in three volumes*, volume 2, page 241, M., 2012. NRNU MEPhI.

A. Prudnikov. Full-text search integration to the hytech dbms. In *Science session NRNU MEPhI-2010. XIII conference «Young people and science»: abstracts in three volumes*, volume 2, pages 161–162, M., 2010. NRNU MEPhI.

A. Prudnikov and M. Markovskiy. Steganalysis methods of digital images. In *Science session NRNU MEPhI-2009: proceedings in six volumes*, volume V, pages 67–70, M., 2009. NRNU MEPhI.

A. Prudnikov. Analysis for the presence of hiding information in databases. In *Information systems and technologies 2009. II scientific and technical conference of students, postgraduates and young professionals: abstracts*, pages 162–163, Obninsk, 2009. IATE.

A. Prudnikov. Problems and practice in digital steganography. In *Science session MEPhI-2008. XI conference «Young people and science»: abstracts in two volumes*, volume 1, pages 72–73, M., 2008. MEPhI.

A. Prudnikov. Methods of text steganography. In *Science session MEPhI-2008. XI conference «Young people and science»: abstracts in two volumes*, volume 1, pages 74–75, M., 2008. MEPhI.

A. Prudnikov. Automation of interaction of insurants and fund of social insurance of the russian federation regarding delivery of the accounting reports. In *Science session MEPhI-2007. Abstracts in seventeen volumes*, volume 16. Conference «Young people and science», pages 105–106, M., 2007. MEPhI.